

J I 4 0 M

WIRELESS IoT CONFERENCE SYSTEM CENTRAL UNIT

PoE-powered wireless conference central unit with 96 kHz audio, DANTE/AES67, redundancy and camera tracking support.

96 KHZ	< 5 MS	DANTE/AES67	POE	250 MICS
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01 OVERVIEW

The Jistron JI40M is a Wireless IoT Conference System Central Unit designed for rapid deployment without dedicated conference wiring. It supports fully digital wireless audio, digital-analog backup, DANTE/AES67 interconnection, PoE power, camera tracking and control of up to four meeting rooms. A single host supports 1-4 simultaneous microphones with system capacity up to 250 microphones and 96 kHz audio sampling with latency below 5 ms.

02 KEY FEATURES

- **96 kHz / < 5 ms wireless audio**
Fully digital wireless audio with 96 kHz sampling and latency below 5 ms.
- **DANTE / AES67 integration**
Supports DANTE protocol and interconnected audio signal streaming.
- **PoE single-cable deployment**
Power and data can be delivered over a standard PoE network connection.
- **Up to 250 microphones**
Supports 1-4 simultaneous microphones with system capacity up to 250 microphones.
- **Encrypted ID-paired transmission**
Digital encryption and ID pairing help prevent eavesdropping and unauthorized access.
- **Four-room control**
One host supports independent or merged control of up to four meeting rooms.
- **Dual redundancy**
Analog backup plus dual power redundancy improves system reliability.
- **Camera tracking support**
Compatible with network central control for camera tracking.

03 CONFERENCE & NETWORK FUNCTIONS

5 SPEECH MODES	4 ROOMS	4-CH DANTE	ANALOG BACKUP	CAM TRACK
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04 CONTROLS & SYSTEM OPERATION

1 WIRELESS JOIN

Long-press the Join Conference button on the microphone; no frequency matching is required.

3 SPEECH MODES

Normal, FIFO, Free, Request and Voice Activation modes are supported.

5 FOUR-ROOM MANAGEMENT

One host can independently or jointly control up to four meeting rooms.

7 BLUETOOTH CONTROL LINK

Control connection method is Bluetooth with effective range up to 15 meters.

2 PC / MINI-PROGRAM CONTROL

Control is available through PC software or WeChat mini-program.

4 DANTE ROUTING

Four DANTE channels are available with routing through Dante Controller.

6 CAMERA TRACKING

Supports camera tracking through compatible network central control.

8 UNIFIED WIRED / WIRELESS

Integration with a digital network convergence host enables unified management of wired and wireless systems.

05 RELIABILITY & DEPLOYMENT

■ Digital-analog backup

Analog backup output provides digital-analog redundancy in case of sudden failures.

■ Dual power redundancy

Dual power redundancy is specified to improve operational reliability.

■ Fast single-cable setup

A single network cable handles power and signal transmission for rapid conference deployment.

■ Flexible installation

Wall-mounted, ceiling-mounted and floor-standing installation options are supported.

06 TECHNICAL SPECIFICATIONS

WIRELESS & AUDIO	
System type	Wireless IoT Conference System Central Unit
Effective operating radius	30 meters
Sensitivity	S/N > 60 dB at 25 kHz deviation and 6 dBV input
Frequency bandwidth	50 MHz
Max frequency deviation	+/- 45 kHz
Comprehensive S/N ratio	> 105 dB
Comprehensive T.H.D.	< 0.7% @ 1 kHz
Comprehensive frequency response	45 Hz - 18 kHz +/- 1 dB
Sampling rate	96 kHz
DANTE & NETWORK	
DANTE	4 channels · plug-and-play · automatic device discovery
Routing control	Dante Controller
Room control capacity	Up to 4 meeting rooms
Microphone system capacity	1-4 simultaneous microphones · up to 250 microphones total

06 TECHNICAL SPECIFICATIONS - CONTINUED

POWER & NETWORK INTERFACE	
Power input	PoE / DC 12 V 1.5 A
Max power consumption	10 W
PoE standards	IEEE 802.3af · IEEE 802.3at
PoE cable	10BASE-T: Category 3, 4, 5 UTP (<=100 m) · 100BASE-TX: Category 5 or higher UTP (<=100 m)
Control methods	PC software / WeChat mini-program
Control connection method	Bluetooth
Effective Bluetooth range	<= 15 meters

PHYSICAL	
Dimensions	220 x 220 mm
Weight	800 g

07 ORDERING INFORMATION

MODEL	DESCRIPTION	NOTES
JI40M	Wireless IoT conference central unit - PoE, DANTE/AES67, 96 kHz audio, camera tracking and redundancy	Up to 4 rooms / 250 microphones

Specifications on this datasheet refer to the JI40M Wireless IoT Conference System Central Unit. Compatible microphone units and related conference components are specified separately as required.

08 ABOUT JISTRON

Jistron is a European audio-visual brand headquartered in Tallinn, Estonia. It supplies conference systems, audio processors and installed audio-visual solutions for boardrooms, chambers and command environments; products are manufactured at audited partner facilities.

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The specifications are subject to change without prior notice.

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